

ABSTRACT

A corrosion protection device ("CPD") for inhibiting corrosion of an air compressor collection tank, and relieving the pressure in the tank when excessive condensate accumulates within the tank. A relief passage extends through the plug, and an anode seals the relief passage near the interior volume of the tank. The tank, plug and anode are all coupled in an electrically conductive relationship, and a galvanic circuit is formed when condensate collects near the bottom of the tank. The anode has a lower redox potential than steel, and is preferably made from magnesium. The anode loses electrons with less resistance than the steel tank, so the anode will be consumed through the oxidation process before the steel tank corrodes. Once the anode is consumed so that it no longer seals the relief passage, the condensate and air are discharged from the tank through the relief passage.

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